

Figure 1

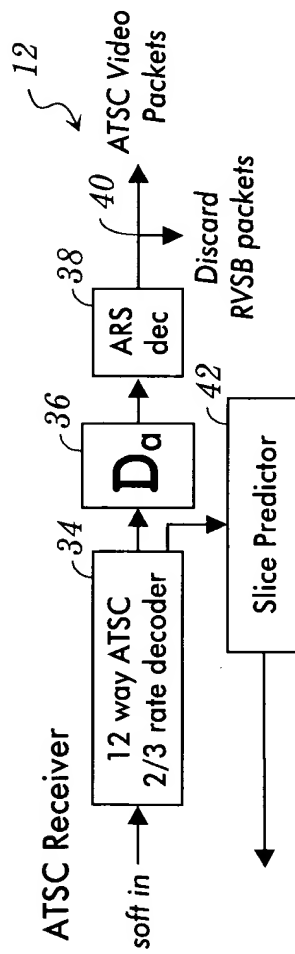
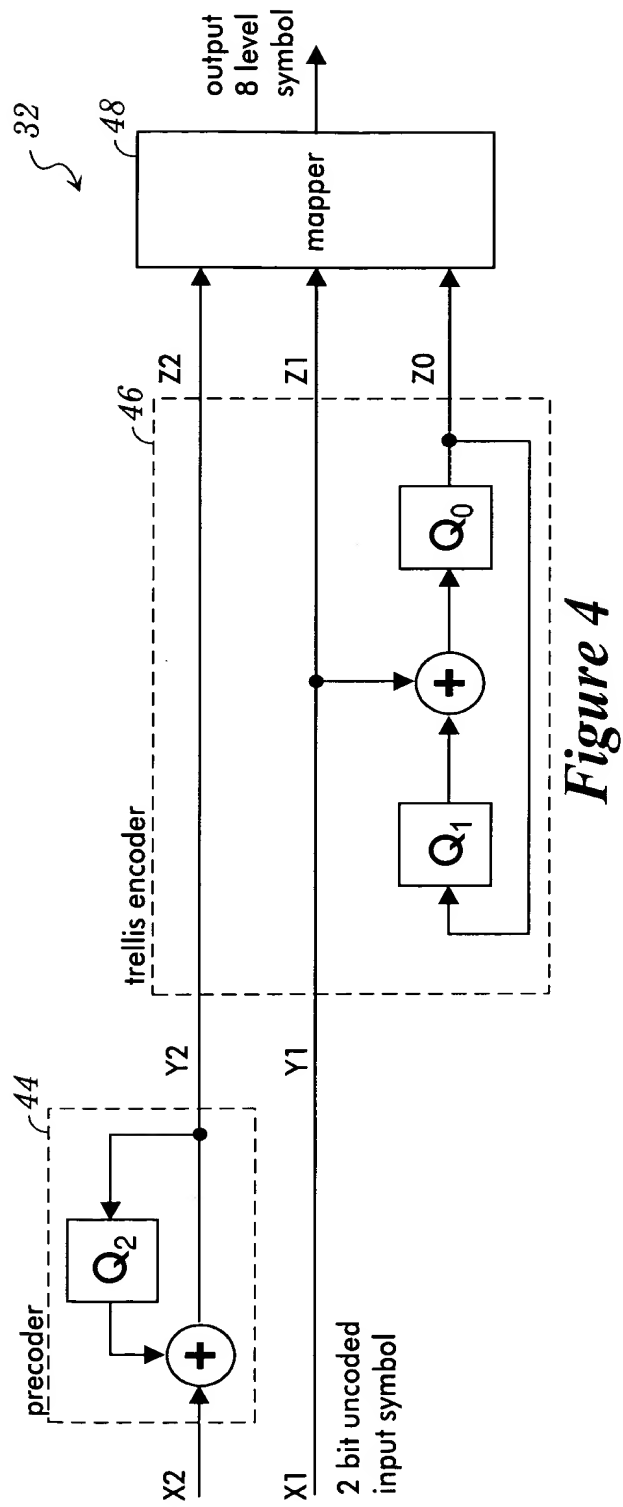
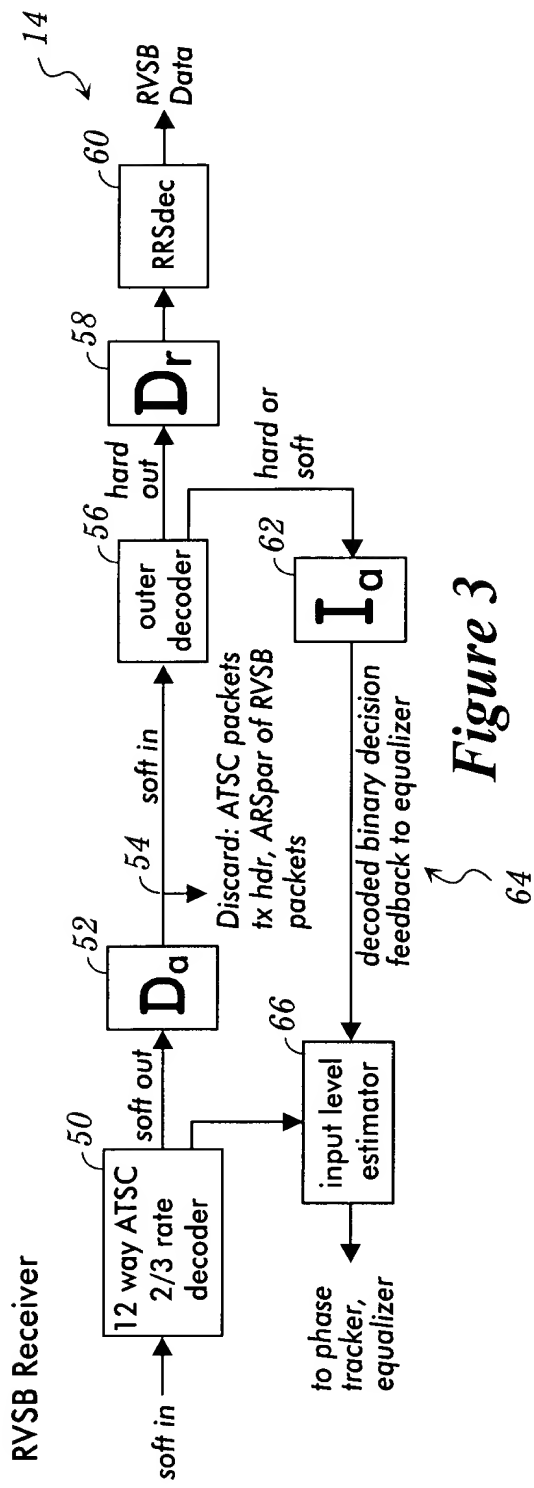


Figure 2

mapper function				level
Z2	Z1	Z0		
0	0	0	-7	
0	0	1	-5	
0	1	0	-3	
0	1	1	-1	
1	0	0	+1	
1	0	1	+3	
1	1	0	+5	
1	1	1	+7	

Figure 5



branch label :

X_2X_1 / mapped output level

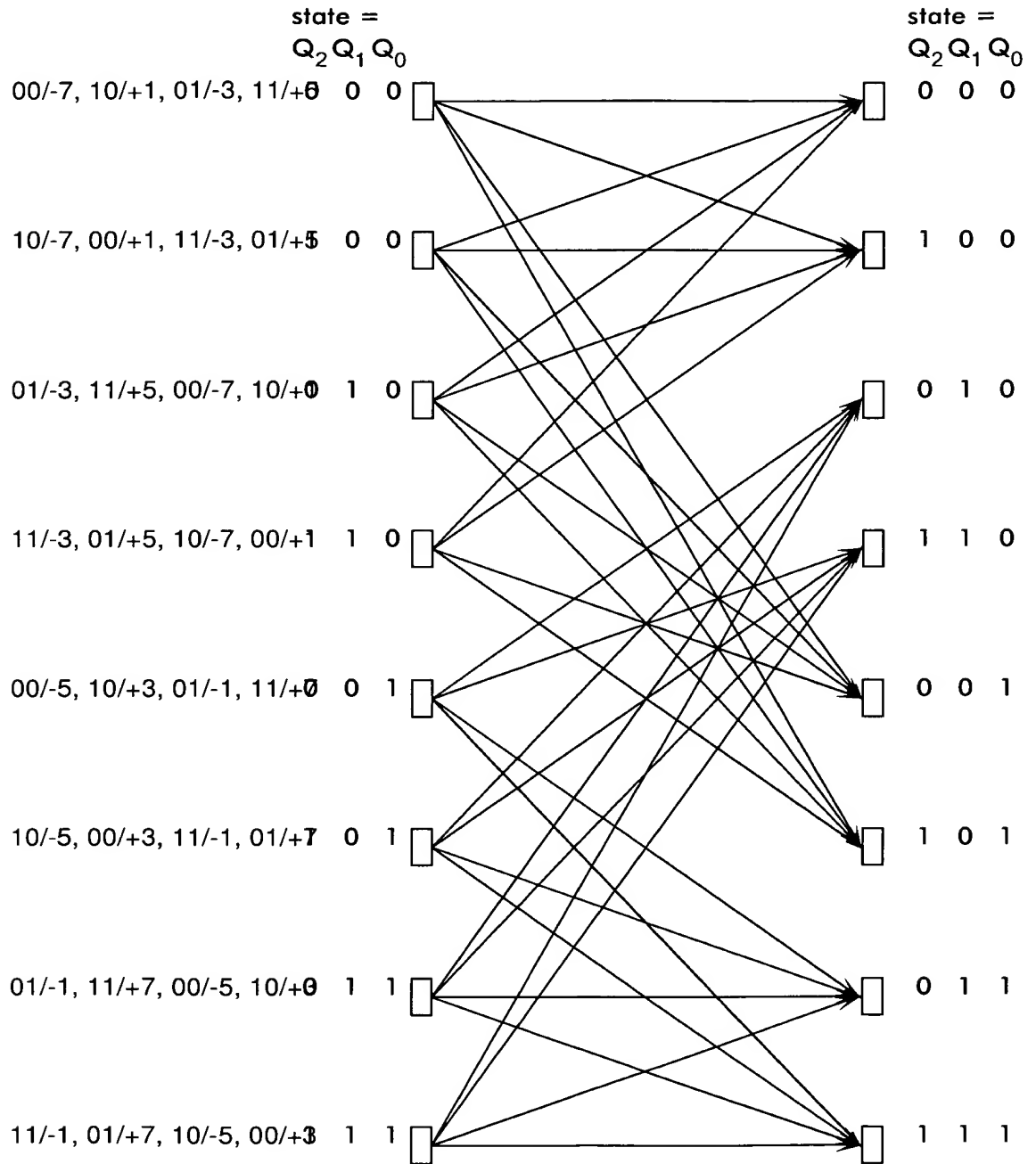
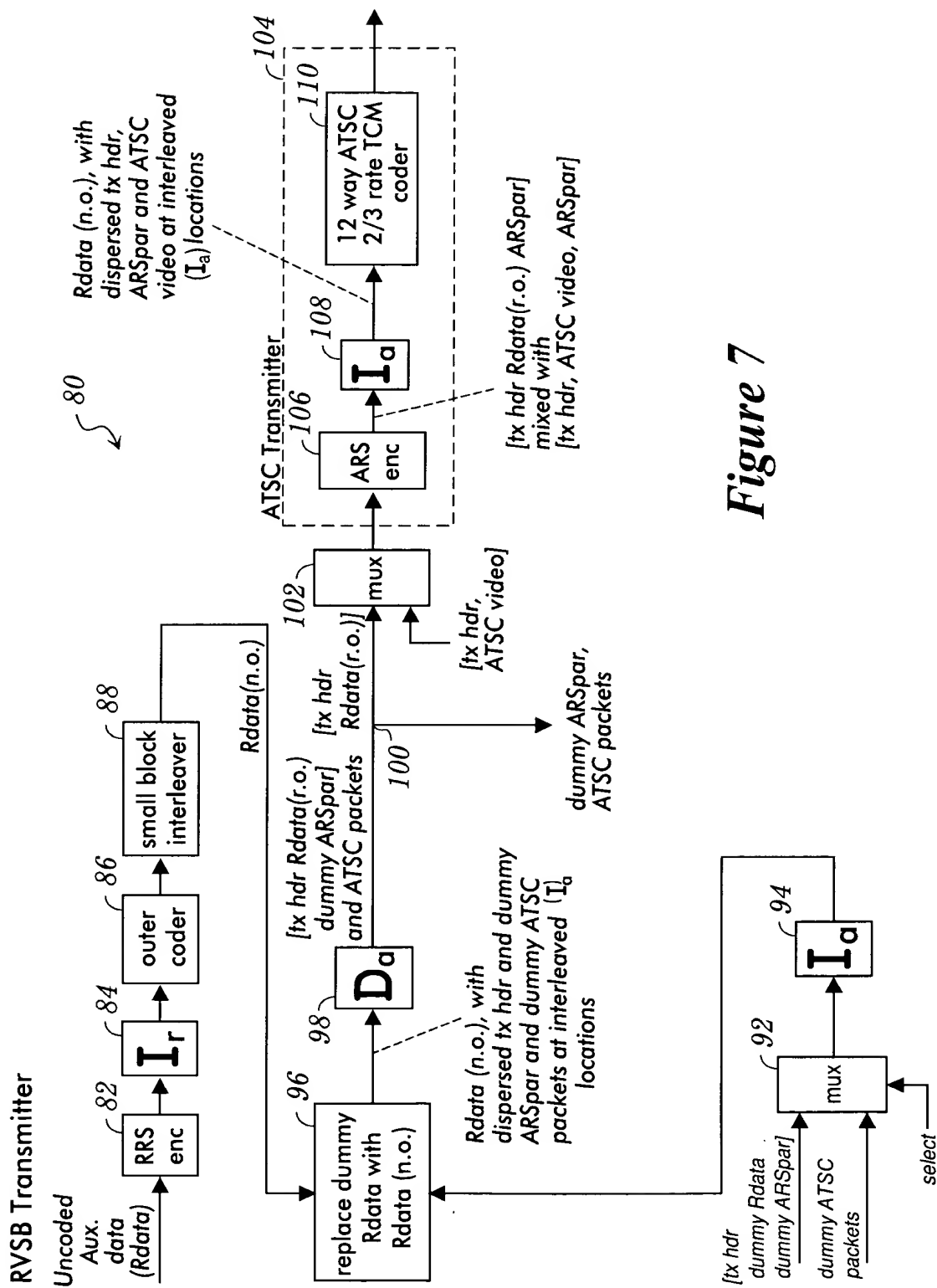
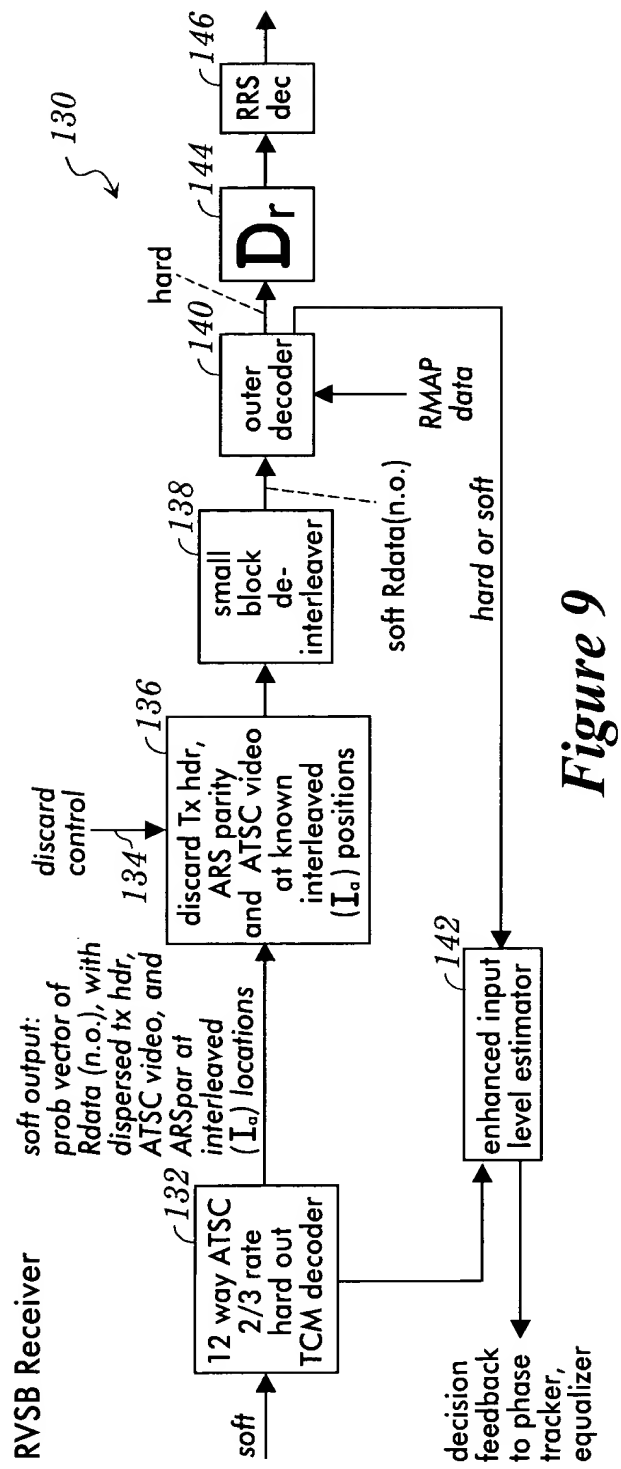
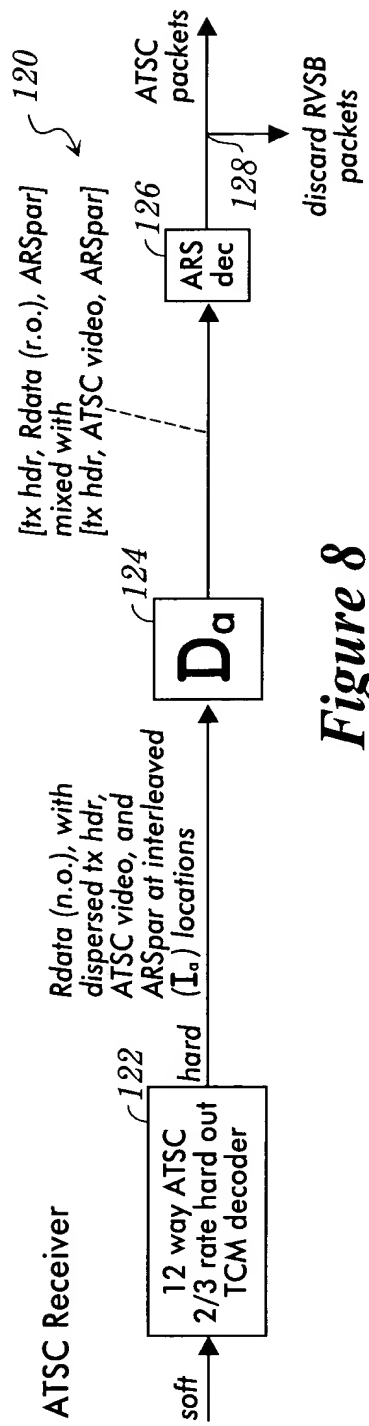


Figure 6





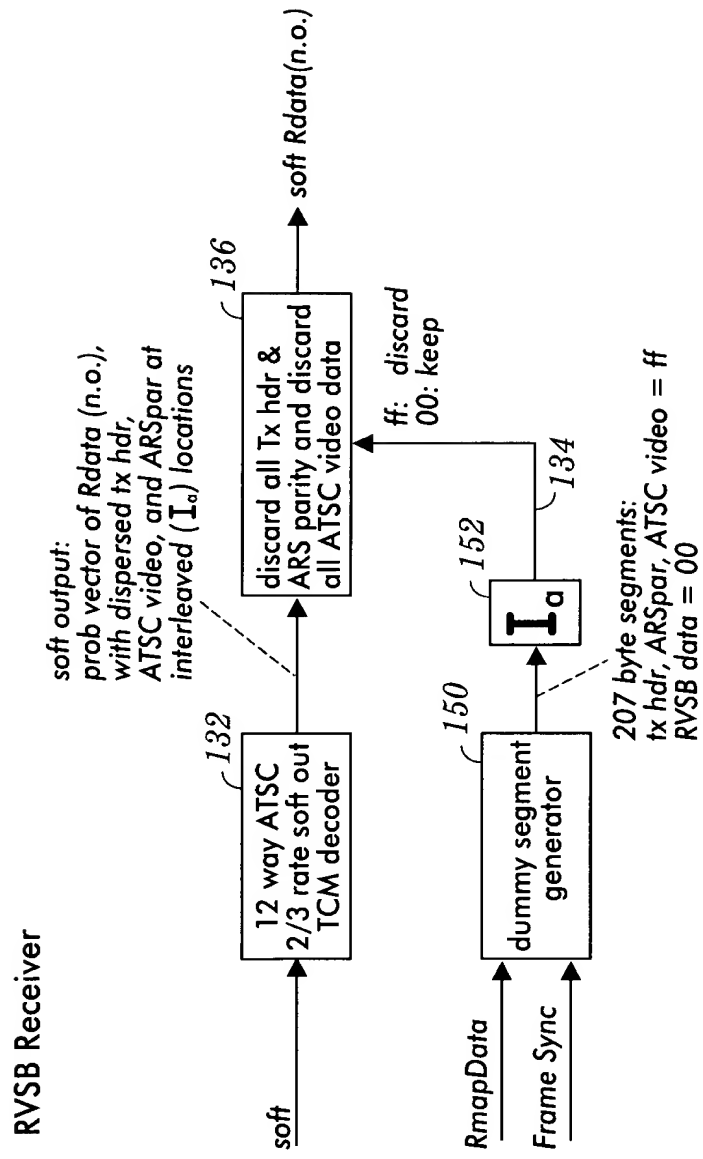
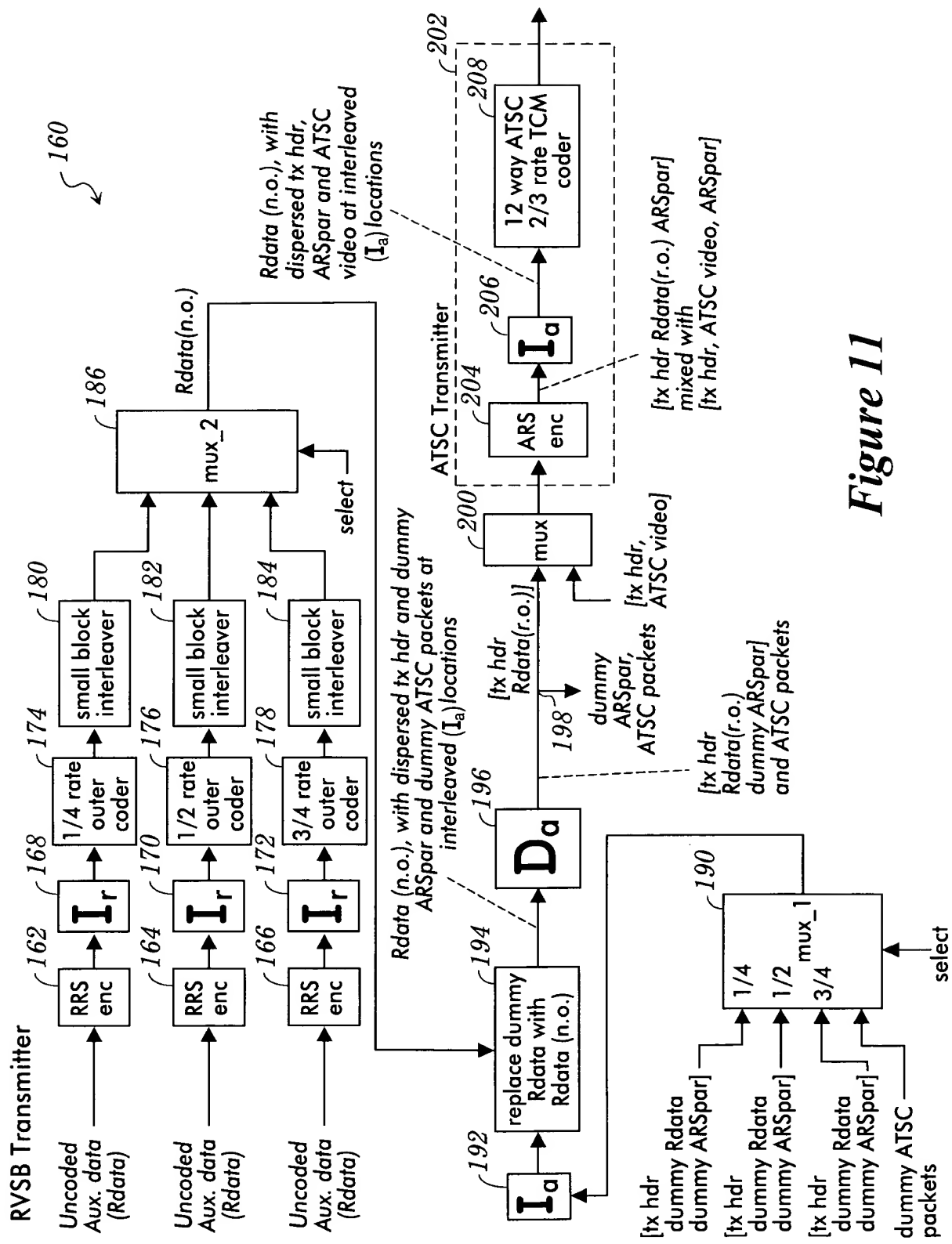


Figure 10



for 1/2 rate outer code

ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 92 bytes payload		ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (576 symbols) 72 bytes payload	RRS parity (160 symbols) 20 bytes	ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 92 bytes payload		ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (576 symbols) 72 bytes payload	RRS parity (160 symbols) 20 bytes	ARS parity (80 symbols)

2 bits/symbol 1 bit/symbol 2 bits/symbol

Figure 12

for 1/4 rate outer code

ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 46 bytes payload		ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 46 bytes payload		ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 46 bytes payload		ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (416 symbols) 26 bytes payload	RRS parity (320 symbols) 20 bytes	ARS parity (80 symbols)

2 bits/symbol 0.5 bit/symbol 2 bits/symbol

Figure 13

for 3/4 rate outer code

ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 138 bytes payload			ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 26 bytes payload	20 bytes RRS parity	92 bytes payload	ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 72 bytes payload	20 bytes RRS parity	46 bytes payload	ARS parity (80 symbols)
ATSC tx hdr (12 symbols)	RVSB data (736 symbols) 118 bytes payload	20 bytes RRS parity		ARS parity (80 symbols)

2 bits/symbol 1.5 bit/symbol 2 bits/symbol

Figure 14

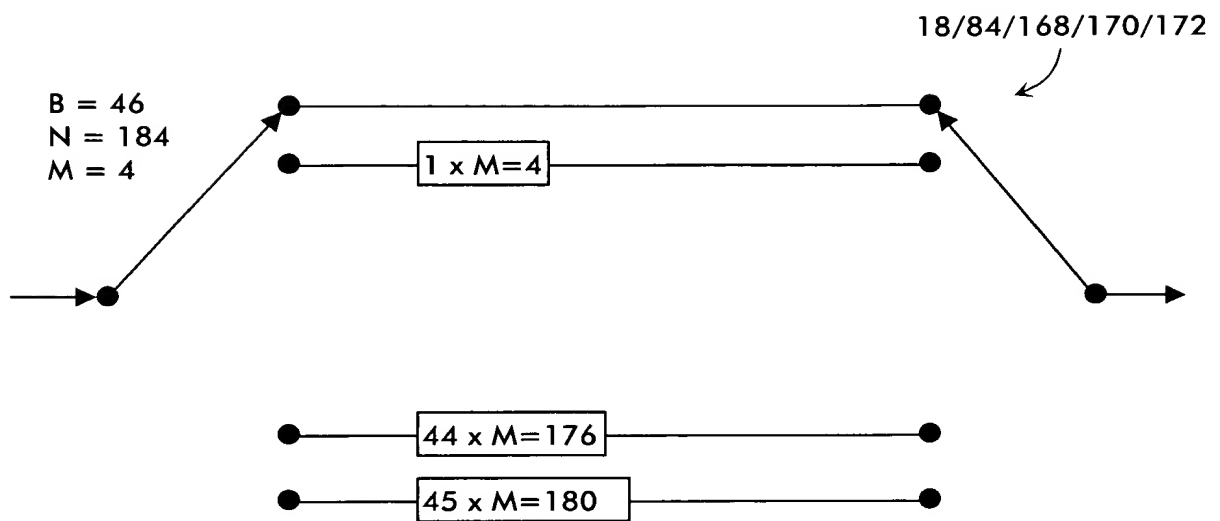


Figure 15

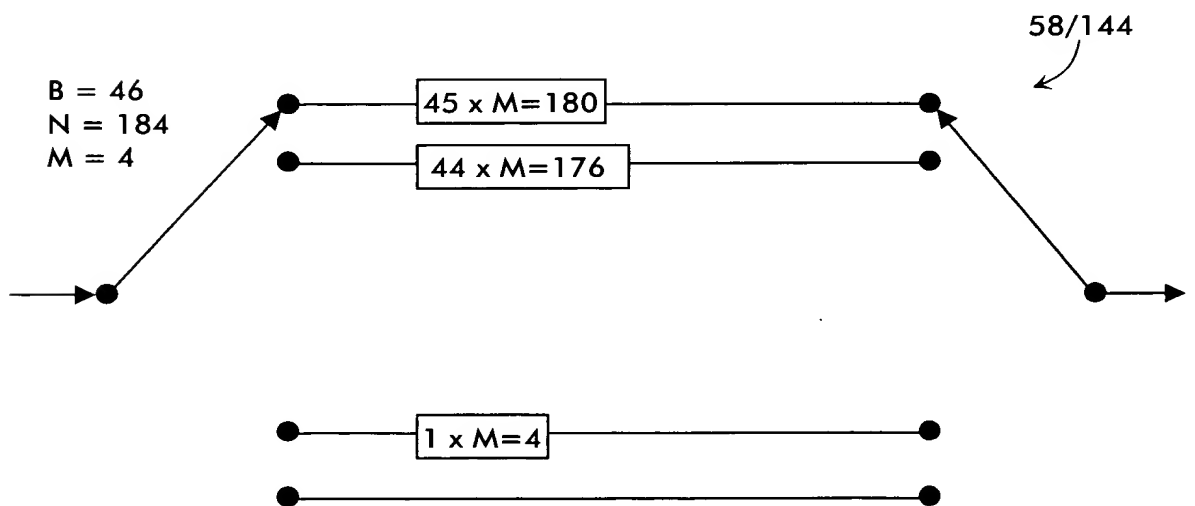


Figure 16

First RVSB RS block of field

RVSB map data (24 bits)	1288 bits
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Figure 17

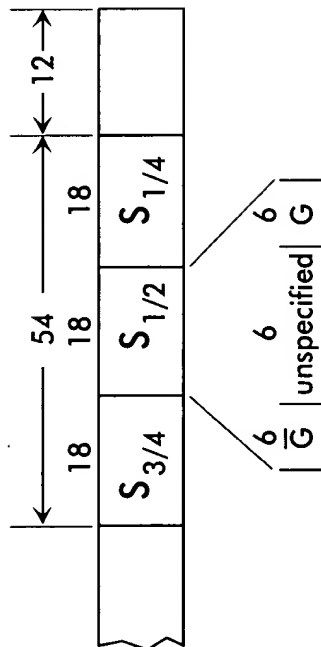


Figure 18

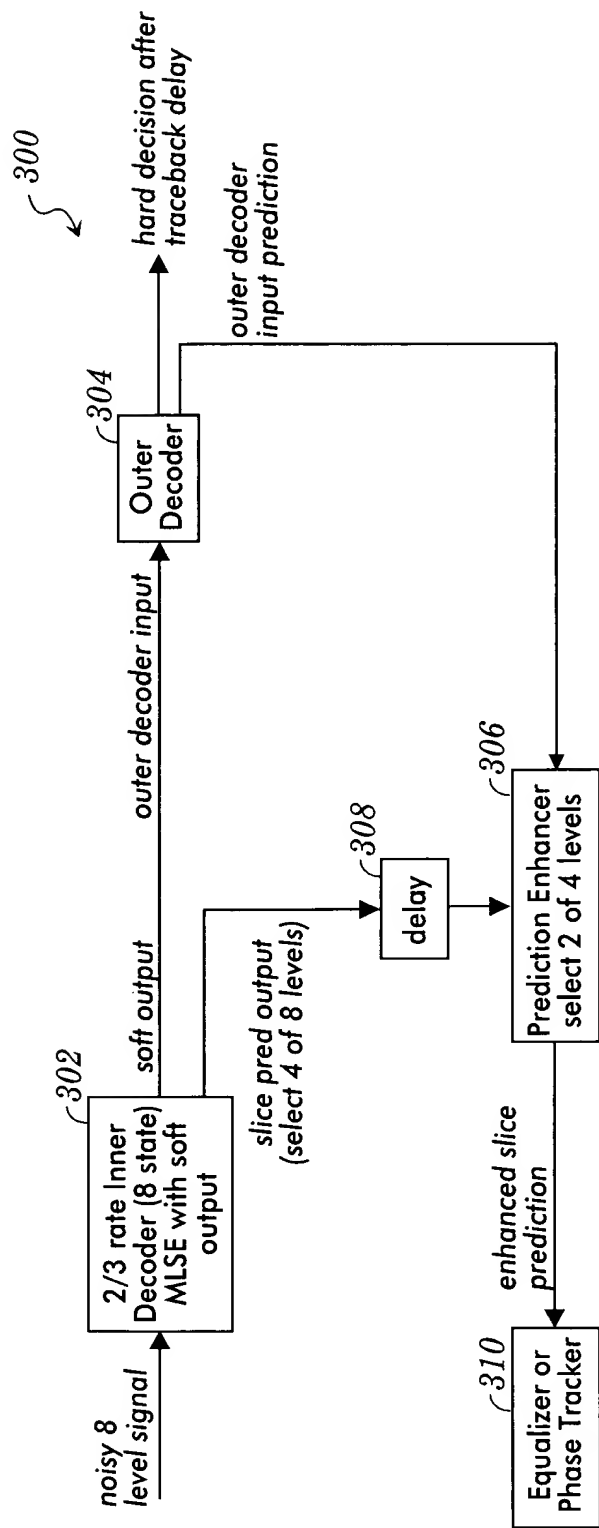


Figure 19

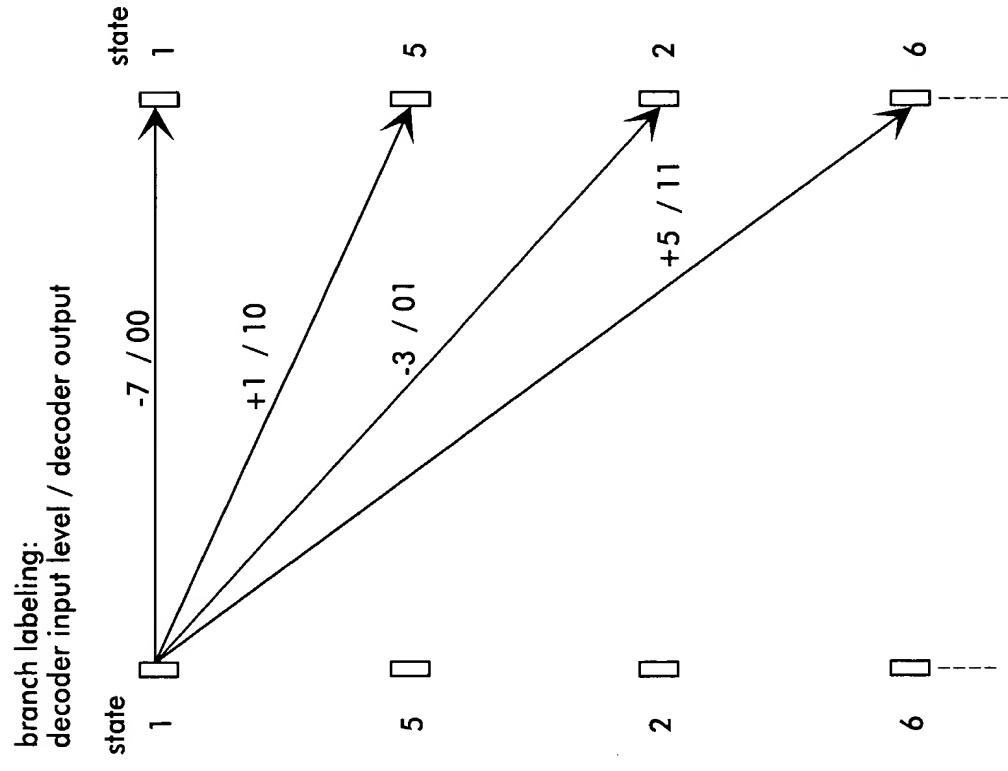


Figure 20

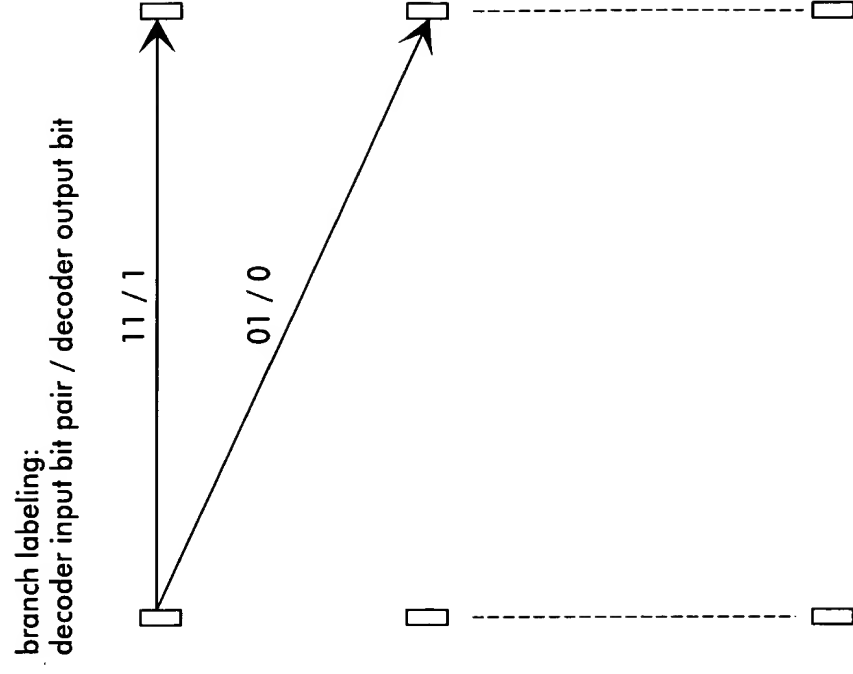


Figure 21

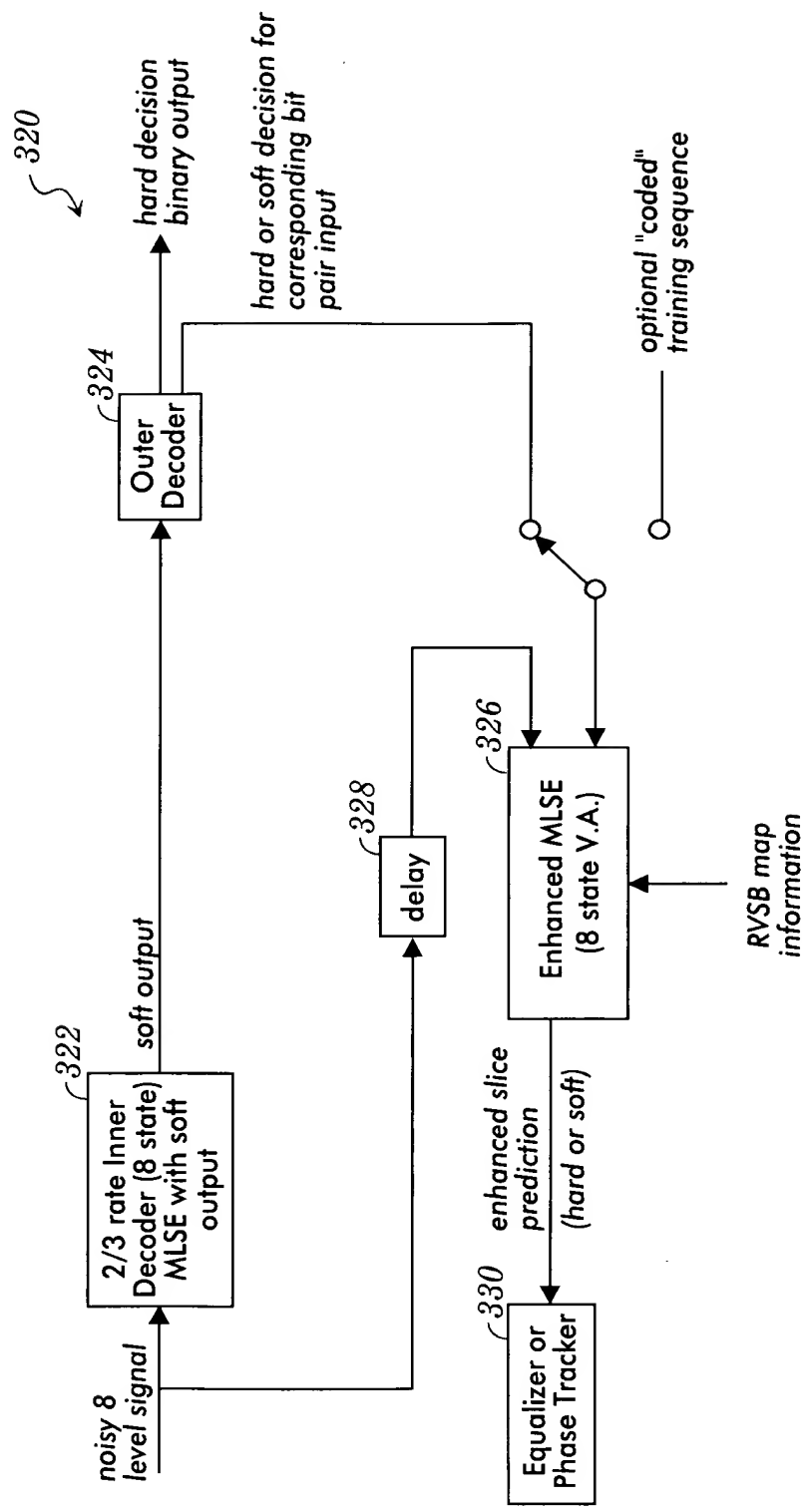


Figure 22